

I claim:

5 1. A non-fastened pizza carton having material-saving dimensions and a diagonal corner panel structure free of attachment to an end wall, said carton being of foldable material and comprising:

10 a bottom panel having a predetermined front-to-rear length,

 opposing front and rear end walls,

15 a side wall structure comprising a side wall, a diagonal corner panel attached to an end of said side wall and extending at least part way to one of said front and rear end walls, and a connector panel, and

20 a full-length cover panel hingedly attached to said rear end wall and extending substantially all the way to said front end wall and having a predetermined front-to-rear length;

25 wherein:

 (a) the predetermined front-to-rear length of said full-length cover panel is substantially shorter than the predetermined front-to-rear length of said bottom panel,

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 (b) at least one of the front and rear end walls is disposed at a substantially acute angle to said bottom panel and said side wall is disposed

at a substantially non-acute angle to said bottom panel, and

5 (c) said connector panel overlies said bottom panel and is attached to a bottom edge of said diagonal corner panel and to said bottom panel and is free of attachment to any other panel.

10 2. The non-fastened pizza carton of claim 1 wherein:

15 said cover further comprises a cover side flap structure comprising a cover side flap attached to said cover panel at a cover side flap fold line and a corner flap attached to a rear end of said cover side flap at a corner flap fold line and disposed between an end of said side wall and said rear end wall, said corner flap fold line being disposed at an oblique angle to said cover side flap fold line.

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25 3. A non-fastened pizza carton having material-saving dimensions, a diagonal corner panel structure, and a flap-in-slot cover closure, said carton comprising:

a bottom panel having a predetermined front-to-rear length,

30 a rear end wall,

a front wall structure opposing said rear end wall and comprising a front wall,

5 a side wall structure comprising a side wall, a diagonal corner panel attached to an end of said side wall and extending at least part way to one of said front and rear end walls, and a connector panel attached to a bottom edge of said diagonal corner panel and overlying said bottom panel, and

10 a full-length cover panel hingedly attached to said rear end wall and extending substantially all the way to said front end wall and having a predetermined front-to-rear length;

15 wherein:

(a) the predetermined front-to-rear length of said full-length cover panel is substantially shorter than the predetermined front-to-rear length of said bottom panel,

20 (b) at least one of the front and rear end walls is disposed at a substantially acute angle to said bottom panel and said side wall is disposed at a substantially non-acute angle to said bottom panel, and

25 (c) said cover further comprises a cover flap and said front wall structure further comprises a flap-receiving means and said cover flap is disposed within said flap-receiving means.

30 4. The non-fastened pizza carton of claim 3 wherein:

5 said cover further comprises a cover side flap structure comprising a cover side flap attached to said cover panel at a cover side flap fold line and a corner flap attached to a rear end of said cover side flap at a corner flap fold line and disposed between an end of said side wall and said rear end wall, said corner flap fold line being disposed at an oblique angle to said cover side flap fold line.

10 5. A non-fastened carton having an inward-slanting end wall and non-parallel side walls, said carton comprising:

15 a bottom panel,

 opposing front and rear end walls, and

20 opposing left and right side wall structures comprising respective left and right side walls disposed non-parallel to one another and adjacent said rear end wall;

 wherein:

25 (a) at least one of said front and rear end walls is disposed at a substantially acute angle to said bottom panel and said left and right side walls are each disposed at a substantially non-acute

30 angle to said bottom panel, and

 (b) said left and right side walls are each disposed at an obtuse angle to said rear end wall.

6. The non-fastened carton of claim 5 further comprising:

5 a cover comprising a cover panel
attached to said rear end wall and a cover side flap
structure comprising a cover side flap attached to
said cover panel at a cover side flap fold line and
a corner flap attached to a rear end of said cover
10 side flap at a corner flap fold line and disposed
between an end of said side wall and said rear end
wall, said corner flap fold line being disposed at
an oblique angle to said cover side flap fold line

15 7. A non-fastened carton having diagonal
corner panels and non-parallel side walls, said
carton comprising:

 a bottom panel,
20 opposing front and rear end walls, and

 opposing left and right side wall
structures comprising respective left and right side
25 walls hingedly attached to said bottom panel, left
and right diagonal corner panels attached to
respective ends of said left and right side walls
and extending at least part way to one of said front
and rear end walls, and left and right connector
30 panels attached to respective bottom edges of said
left and right diagonal corner panels and overlying
said bottom panel;

wherein said left and right side walls are non-parallel to one another.

5 8. The non-fastened carton of claim 7 wherein:

10 at least one of said front and rear end walls is disposed at a substantially acute angle to said bottom panel and said left and right side walls are each disposed at a substantially non-acute angle to said bottom panel.

15 9. The non-fastened carton of claim 7 further comprising:

20 a cover comprising a cover panel attached to said rear end wall and a cover side flap structure comprising a cover side flap attached to said cover panel at a cover side flap fold line and a corner flap attached to a rear end of said cover side flap at a corner flap fold line and disposed between an end of said side wall and said rear end wall, said corner flap fold line being disposed at an oblique angle to said cover side flap fold line.

25 10. A blank for a carton having non-parallel side walls, said blank being of foldable material cut and scored to define:

30 a bottom panel,

 a rear end wall hingedly attached to said bottom panel at a rear wall fold line,

a front wall structure opposing said rear end wall and comprising a front end wall hingedly attached to said bottom panel,

5 opposing left and right side wall structures comprising respective left and right side walls hingedly attached to said bottom panel at respective left and right side wall fold lines disposed adjacent said rear wall fold line and each
10 having a top edge, and

 a cover comprising a cover panel hingedly attached to said rear end wall at a cover panel fold line and opposing left and right cover
15 side flap structures comprising respective left and right cover side flaps attached to said cover panel at respective left and right cover side flap fold lines disposed adjacent said cover panel fold line and each having a lower edge;
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 wherein:

 (a) said left and right side wall fold lines are non-parallel to one another, and
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 (b) a substantial portion of the lower edge of said left and right cover side flaps is disposed non-oblique to a substantial portion of the top edge of said left and right side walls,
30 respectively.

11. The blank of claim 10 wherein:

each of said left and right cover side flaps is a gradual-diminishing-height cover side flap.

5 12. A blank for a carton having non-parallel side walls, said blank being of foldable material cut and scored to define:

10 a bottom panel,

 a rear end wall hingedly attached to said bottom panel at a rear wall fold line,

15 a front wall structure opposing said rear end wall and comprising a front end wall hingedly attached to said bottom panel,

20 opposing left and right side wall structures comprising respective left and right side walls hingedly attached to said bottom panel at respective left and right side wall fold lines disposed adjacent said rear wall fold line, and

25 a cover comprising a cover panel hingedly attached to said rear end wall at a cover panel fold line and opposing left and right cover side flap structures comprising respective left and right cover side flaps attached to said cover panel at respective left and right cover side flap fold lines disposed adjacent said cover panel fold line
30 and each having a lower edge;

 wherein:

(a) said left and right side wall fold lines are non-parallel to one another, and

5 (b) each of said left and right cover side flaps is a gradual-diminishing-height cover side flap.

10 13. First and second blanks formed from a single sheet of foldable material and disposed side-by-side, each of the blanks being cut and scored to define:

a bottom panel,

15 a rear end wall hingedly attached to said bottom panel at a rear wall fold line,

20 a front wall structure opposing said rear end wall and comprising a front end wall hingedly attached to said bottom panel,

25 opposing left and right side wall structures comprising respective left and right side walls hingedly attached to said bottom panel at respective left and right side wall fold lines disposed adjacent said rear wall fold line, and

30 a cover comprising a cover panel hingedly attached to said rear end wall at a cover panel fold line and opposing left and right cover side flap structures comprising respective left and right cover side flaps attached to said cover panel at respective left and right cover side flap fold

lines disposed adjacent said cover panel fold line and each having a lower edge;

wherein:

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(a) said left and right side wall fold lines are non-parallel to one another,

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(b) each of said left and right cover side flaps is a gradual-diminishing-height cover side flap, and

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(c) a substantial portion of the top edge of at least one of the side walls of the first blank is disposed non-oblique to a substantial portion of the top edge of a corresponding side wall of the second blank.

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14. The first and second blanks of claim 13 wherein:

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said first and second blanks are oriented at one hundred eighty degrees from each other and the top edge of one of the side walls of the first blank is disposed adjacent the lower edge of one of the cover side flaps of the second blank.

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15. First and second blanks formed from a single sheet of foldable material and disposed side-by-side, each of the blanks being cut and scored to define:

a bottom panel,

a rear end wall hingedly attached to said bottom panel at a rear wall fold line,

5 a front wall structure opposing said rear end wall and comprising a front end wall hingedly attached to said bottom panel,

10 opposing left and right side wall structures comprising respective left and right side walls hingedly attached to said bottom panel at respective left and right side wall fold lines disposed adjacent said rear wall fold line and each having a top edge, and

15 a cover comprising a cover panel hingedly attached to said rear end wall at a cover panel fold line and opposing left and right cover side flap structures comprising respective left and right cover side flaps attached to said cover panel
20 at respective left and right cover side flap fold lines disposed adjacent said cover panel fold line and each having a lower edge;

25 wherein:

(a) said left and right side wall fold lines are non-parallel to one another,

30 (b) each of said left and right cover side flaps is a gradual-diminishing-height cover side flap, and

(c) a substantial portion of the lower edge of at least one of the cover side flaps of the

first blank is disposed non-oblique to a substantial portion of at least one of the lower edge of a cover side flap and the top edge of a side wall of the second blank.

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16. The first and second blanks of claim 15 wherein:

10 said first and second blanks are oriented at one hundred eighty degrees from each other and the top edge of one of the side walls of the first blank is disposed adjacent the lower edge of one of the cover side flaps of the second blank.

15 17. The first and second blanks of claim 15 wherein:

20 a substantial portion of said lower edge of at least one of the cover side flaps of the first blank is contiguous with a substantial portion of said top edge of a side wall of the second blank.

25 18. A carton having a unique configuration of wall panels, said carton comprising:

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(a) a bottom panel,

30 (b) a plurality of wall panels each having a predetermined length, said plurality of wall panels comprising:

(i) a rear end wall,

(ii) opposing non-parallel left and right rearward side walls each disposed at a predetermined obtuse angle to said rear end wall,

5 (iii) opposing non-parallel left and right forward side walls each disposed at a predetermined obtuse angle to said first and second rearward side walls, respectively, and

10 (c) a cover hingedly attached to said rear end wall;

wherein:

15 the predetermined obtuse angle between said rear end wall and said left and right rearward side walls is less than the predetermined obtuse angle between said left and right rearward side walls and said left and right forward side walls,
20 and

the predetermined length of said left and right rearward side walls is longer than the predetermined length of said left and right forward
25 side walls.

19. The carton of claim 18 wherein:

30 said left and right forward side walls are hingedly attached to an end of said left and right rearward side walls, respectively.

20. The carton of claim 18 wherein:

said plurality of wall panels further comprises a front end wall opposing said rear end wall.

5 21. The carton of claim 18 wherein:

said plurality of wall panels further comprises a front end wall opposing said rear end wall, and

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at least one of the front and rear end walls is disposed at an acute angle to said bottom panel.

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